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OPTICAL AMPLIFICATION GLASS FIBER

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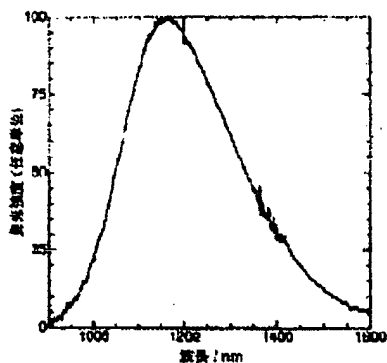
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Abstract of JP2004020994

PROBLEM TO BE SOLVED: To provide an optical amplification glass fiber in which a single mode for the mode of propagation is maintained in an exciting light wavelength, and the aperture at a signal light wavelength is boosted, thus an excellent optical amplification characteristics is given.

SOLUTION: Respective materials of the optical amplification glass fiber are so selected that Abbe number of glass which forms a core is larger than or equal to Abbe number of material which forms a clad. It is preferable that the material which forms the core consists of a oxide glass composition containing an oxide of bismuth. In particular, it is preferable that an oxide of bismuth, silicon dioxide, aluminum oxide and bivalent metal oxide are used as essential components.

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